ELECTROHOME

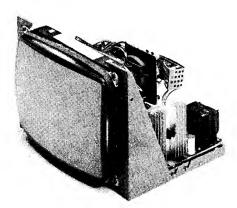
CHASSIS G02

54-7255-01 Issue 1THIS INFORMATION IS UP TO DATE AS OF MARCH 1978.

G02 COLOR DATA MONITOR CHASSIS MANUAL

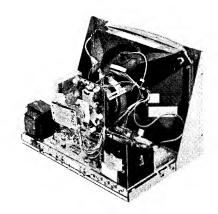
TECHNICAL SERVICE DATA

©1978 ELECTROHOME Limited



SERVICE DATA REFERENCE

100-110-120 Volts, 50/60 Hz., 1.5 Amps. A.C. operated 90° color data monitor chassis. For individual model information, see model data sheets.



When writing for Service Information, please quote chassis type number and model code. See chassis type number and model code located on the back skirt of the chassis.

This information is correct as of May 1978.

MEASUREMENT, X-RAY, HIGH VOLTAGE AND CRT WARNINGS

All color television pix tubes emit some x-rays. This chassis has been designed for minimal x-radiation. However, to avoid possible exposure to soft x-radiation, ensure that EHT value is correctly set in accordance with procedures under EHT Hold-Down and EHT

2. HIGH VOLTAGE

This color data monitor contains HIGH VOLTAGES derived from power supplies capable of delivering LETHAL quantities of energy. To avoid DANGER TO LIFE, do not attempt to service the chassis until all precautions necessary for working on HIGH VOLTAGE equipment have been observed. In order to prevent damage to solid state devices, do not arc pix tube anode lead to chassis or earth ground.

CAUTION: This chassis employs a high EHT (31KV) pix tube.

The picture tube encloses a high vacuum and due to the large surface area is subject to extreme force. Care must be taken not to bump or scratch the picture tube as this may cause the tube to implode resulting in personal injury and property damage. Shatter-proof goggles must always be worn by individuals while handling the CRT or installing it in the monitor. Do not handle the CRT by the neck.

FILE SUPPLEMENTARY MODEL DATA WITH THIS G02 CHASSIS MANUAL

PRODUCT SAFETY SERVICING GUIDELINES

CAUTION

No modification of any circuit should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and service guidelines. To do otherwise increases the risk of potential hazards and injury to the user.

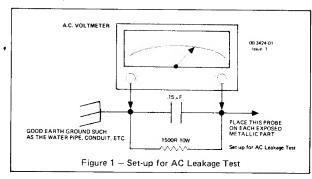
SAFETY CHECKS

Subject: Fire and Shock Hazard

- Do not install, remove, or handle the picture tube in any manner unless shatter-proof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep the picture tube
- away from the body while handling.

 2. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuitry area. Where a short circuit has occurred, replace these components that indicate evidence of overheating. Always use the manufacturer's replacement component.
- Always check high voltage for proper value and at all times use an accurate high voltage meter. The calibration of this meter should be
- accurate high voltage meter. The campration of this included checked periodically. After re-assembly of the set, always perform an A.C. leakage test on the exposed metallic chassis to be sure the set is safe to operate without danger of electrical shock. Do not use a line isolation transformer during the test. Use an A.C. voltmeter having 1000 ohms per volt or more sensitivity in the following manner:— Connect a 1500 ohm 10 watt resistor, paralleled by a .15 mfd, AC-type capacitor between a known good earth ground (water pipe, conduit,

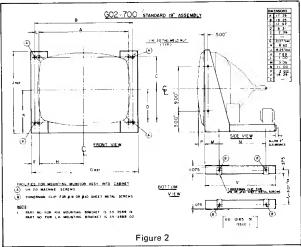
- etc.) and the exposed metallic chassis. Measure the A.C. voltage across the combination 1500 ohm resistor and .15 uf capacitor. Reverse the AC plug on the set and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed .3 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately
- Check for frayed insulation on wires including AC cord.
- Check across-the-line components for damage and replace if necessary

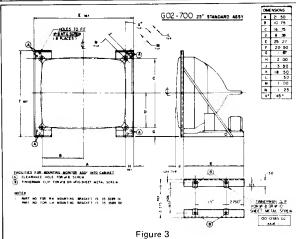


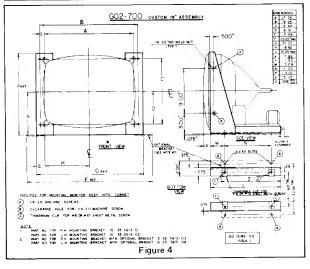
ACCESS INFORMATION

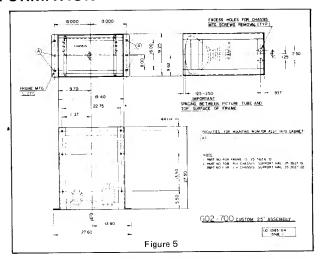
INSTALLATION OF NEW COLOR MONITOR

Allow monitor to reach operating temperature and set controls for normal picture. Observe vertical centering, vertical height and focus and make corrections if mis-adjustment is readily seen. Color temperature, purity and convergence should be critically checked, since these can be affected during normal handling of monitor.









b) There are various models of the G02 color data monitor determined by their mechanical and/or electrical differences. Some of the mechanical configurations are shown in:

mechanical configurations are shown in Figure 2 standard 19" configuration Figure 4 custom 19" configuration custom 25" configuration

Each monitor configuration can be mounted into customer designed enclosured by using mounting facilities provided as described in Figures 2, 3, 4 and 5.

Adequate ventilation must be provided in order to have the monitor function properly. The maximum ambient temperature in which the monitor can operate is 66°C. Special attention should be given to keep the underside of monitor chassis clear of any obstruction that will hinder air flow to and from power dissipating components.

AUTOMATIC DEGAUSSING

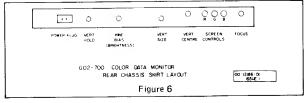
All monitors are equipped with automatic degaussing coils which effectively demagnetize the picture tube each time the monitor is turned on. The degaussing coils will operate any time the monitor is turned on after having been off for at least five minutes.

The degaussing effect is confined to the picture tube since the coils are mounted on the ferrous tube shield. Should any part of the chassis become magnetized, it will be necessary to degauss the affected area by means of a manual degaussing coil. Move the coil slowly around the CRT face area, then slowly withdraw for a distance of six feet before disconnecting the coil from the AC power supply.

3. SERVICE CONTROLS

There are 8 service controls located on the rear skirt. For functions and location see Figure 6.

The horizontal width control is located on the rear panel of the flyback transformer enclosure (right hand side).



4. CHASSIS REMOVAL FOR SERVICE

To remove the chassis from the tube assembly.

1) Disconnect Video Output PC Board Assembly.

- Remove two hold-down screws on the side of chassis skirt. Disconnect picture tube anode lead and ground connector yoke plug convergence plug, degaussing connection and two harness plugs on
- interface PCB. Pull chassis back and then up until it clears slots in mounting rails.

5. PICTURE TUBE REMOVAL

CAUTION: Wear safety goggles, handle CRT gently, do not lift by neck.

Short second anode to aquadag ground to discharge tube.

driver.

In order for the EHT to reappear, it will be necessary to cut off power to the monitor and remove the fault or adjustment condition that triggered the EHT collapse or subsequent collapses will occur.

2) EHT Hold-Down and EHT Adjustments

In order to stay within government specified guidelines regarding x-ray radiation, the flyback tertiary coil, EHT hold-down control (R930), and EHT preset control (R422) have been Factory Sealed. If at any time any of the parts listed in figure 9a are changed, it will be mandatory to perform the associated procedures also listed in figure 9a. Example:-

R430 is replaced – procedure C is to be followed
 T901 is replaced – procedures A, B and C are to be followed.
The equipment required to perform procedures A, B and C are listed in

Parts	Procedure to be followed
R430, R422, C951, D430 D420, R947, R428, C942 VT901, R423, C950, R943, V944, R939, R949, R963	С
R948, Q926, R927 D925, R930, R928 C940, R945	В
Tertiary Coil	A & B
Flyback T901, C943	A, B & C
'	Figure 9a

Equipment required for EHT hold-down and EHT adjustment

- Variac 0 140VAC General Radio W5MT3VM or equiv.
- Line voltage monitor Fluke 8000A (.5%) or equiv.
- Mod-tronic beam current meter 1% FSD or equiv.
- Mod-tronic EHT meter 1% FSD or equiv.
- 12K ohm resistor .5W.
- Electrohome RGB color data monitor test generator or equiv.
- Hex tool, non inductive for tertiary coil adjustment.
- Sealing compount Lepages epoxy No.354 or equiv.

Figure 9b

Adjustment Procedure for Flyback Tertiary Coil

- Turn R930, hold down trim pot, to minimum resistance, fully cw. Turn R422, EHT adjust to minimum resistance, fully ccw.
- Apply 120VAC to power up chassis and monitor EHT at 0 beam current.
- Adjust tertiary coil on flyback for minimum EHT. If there are several dips in the EHT as the slug is adjusted, choose the dip producing minimum EHT
- Connect signal generator to video input, switch generator to field and touch up tertiary coil for minimum ringing bars on screen.
- Turn the set off and seal* tertiary coil with epoxy (Lepages No.354 or equivalent) in such a manner that neither tune slug can be moved, or tune wand inserted into the coil.

Adjustment Procedure for EHT Hold-Down Pot (R930)

- Turn R930, hold down trip pot, to minimum resistance, fully cw.
- Turn R422, EHT adjust, to minimum resistance, fully ccw.
- Apply 132VAC to power up chassis, and set R422 for an EHT of 32.0KV at 0 beam current, If 32KV cannot be obtained within range of R422, jumper R423 with a 12K ohm resistor to facilitate adjustment
- Advance hold down trip pot, R930 slowly towards high resistance (c.w.) just until EHT drops down towards 0. Note that it may be necessary to clip out R928B to facilitate this adjustment.
- Turn R422 fully ccw (min. resistance) and reset EHT trip circuitry by momentarily shorting our C954 (.1uf).
- Slowly turn R422 cw and verify that EHT trips at between 32.0 and 32.5 KV. If it does not go towards 0 within these limits repeat this set up procedure (1-4) or reject and repair the set.
- Once EHT trips within acceptable limits, remove line voltage and seal* R930 with epoxy (Lepages No.354 or equivalent). If it was necessary to jumper R423 with a 12K resistor, remove this resistor.

Adjustment Procedure for EHT Preset (R422)

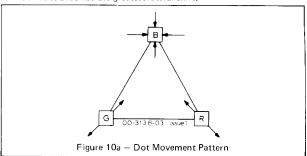
- Turn R422 fully ccw and apply 120V line to set.
 Slowly adjust R422 to where EHT = 30.0 KV at 0 beam current.
 Remove power and seal *R422 with epoxy (Lepages No.354 or equivalent).

*In all steps where an item must be sealed, it must be done in such a manner that the seal cannot be broken without damaging the item.

9. CONVERGENCE

General Information - The dot movement pattern is illustrated in figure 10a. The dots move approximately the same angle as the convergence magnets are offset from the vertical plane. Blue, since it is mounted in a vertical plane, moves the blue dot up and down vertically; red and green moves the respective dots on at about a 60% angle from the vertical. The

blue lateral assembly moves all three dots in a horizontal plane, the blue dot in one direction and the red and green dots in the opposite direction in a 5/1 ratio. Blue has the greatest lateral shift.



The thumbscrew adjustment of red, blue and green centre convergence magnets can be rotated in either direction continuously. Flux change is accomplished by changing the pole position of the magnets, not by moving the magnets nearer or further from the respective guns.

The blue lateral magnet is adjusted by means of the knurled knob located on the blue lateral assembly.

10. PURITY AND CONVERGENCE

Turn kine bias control and R, G and B screen controls to min. (c.c.w.).

Pre-Conv. Setup (North/South)

- Switch to white crosshatch and do rough static and dynamic convergence ensuring that all convergence controls are operatable.
- Adjust vertical size, vertical centering and horizontal centering roughly.
- Set up top and bottom pincushion as follows:

 - a) Turn PIN AMP control (R664) fully counterclockwise.
 b) Adjust the PIN phase control (L661) to move the curvature to the center of the screen.
 - Adjust R664 pin amp for straight horizontal lines on top and bottom of crosshatch pattern.
 - Repeat because of interaction.
- Set focus if focus appears very bad (this is only initial focus adjustment).

Purity Setup (must be North/South Direction)

- Switch to red field with kine bias control minimum (c.c.w.).
- Set up purity as follows:
 - Move yoke back against convergence assembly to get a three to four inchired spot on the CRT face (when spot is not small enough move convergence assembly temporarily backwards). Adjust purity magnets (rings with tabs located on blue lateral
 - assembly figure 7) to center red area on CRT face.
 - Move yoke forwards for best overall red purity
 - Check blue and green fields for purity by switching appropriate signals.
 - Switch to white crosshatch. Check yoke level and centering, tighten yoke clamp, locate convergence assembly and tighten up clamp. Make sure mounting is solid,
 - Switch low level white field and check white field for purity and white uniformity. If no low level signals are available low level white can be obtained by turning the kine bias control c.c.w.
- Check color temperature as follows:
 - If interface PCB used has video drive controls, adjust these controls (red, green and blue) for good high level white
 - Adjust screen controls up to achieve good low level whites.

Final Convergence Setup (North/South Direction)

- Switch to yellow crosshatch (R + G).
- Set static convergence as follows:
 - Converge red and green bars at center by adjusting red and green convergence magnets.
 - With blue signal on, converge the blue bars onto red and green by using the blue magnets for horizontal (lateral magnet holder may be rotated slightly to minimum vertical effect)

Note: Use minimum blue lateral adjustment required. Excessive blue lateral adjustment causes slight defocusing of other guns. Repeat steps if necessary because of interaction.

Location of blue lateral important.

Static Convergence must be as accurate as possible.

- Adjust dynamic convergence as follows (see figure 11) with yellow cross-hatch test pattern (red + green)
 - a) Adjust control R4 for best convergence at the bottom of the
 - b) Adjust control R3 for best convergence at the top of the screen.
 - Adjust control R8 for best convergence at the left of the screen. Adjust coil L3 for best convergence at the right of the screen.

Red/Green Horizontal Bars

Adjust control R1 for best convergence at the bottom of the

screen.

Adjust control R2 for best convergence at the top of the screen.

Adjust control R9 for best convergence at the left of the screen.

d) Adjust coil L4 for best convergence at the right of the screen.

Note: Yoke balance adjustment may be used to improve red horizontal "S"ing. To check yoke balance adjustment, remove convergence plug and adjust L961 for R and G line coincidence. Later monitors do not have yoke balance adjustment,

5. Blue Horizontal Bars

- Adjust control R6 for best convergence at the bottom of the screen.
- Adjust control R5 for best convergence at the top of the screen.
- Adjust control R7 for best convergence at the left of the screen.

 Adjust coil L2 for best convergence at the left of the screen.

 If necessary, repeat static and dynamic convergence operations concentrating first on red and green fields, then on blue until convergence is in full spec.

Note: Convergence tolerances only apply if best possible convergence has been achieved. Set should be converged well within allowable

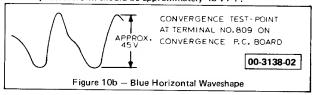
Adjust focus very critically to the point where vertical lines have no blooming and horizontal lines have no smearing.

Note: A mirror, preferably surface plated, placed in front of the monitor will provide a good reproduction of the CRT display while allowing the service technician complete access to the rear of the monitor to do his convergence and purity set-up.

11. BLUE HORIZONTAL SHAPING COIL (see figure 10b)

The Blue Horizontal Shaping Coil L801 is not part of the convergence set-up adjustments. Misadjustment of this coil will cause horizontal distorition and eventual failure. If for any reason, L801 becomes misadjusted, it can be reset as follows:

Connect an oscilloscope to the junction of L801 and R804. Adjust L801 until the horizontal harmonic "bump" is at the 50% point on the sine wave slope. Waveform should be approximately 45 v P-P.



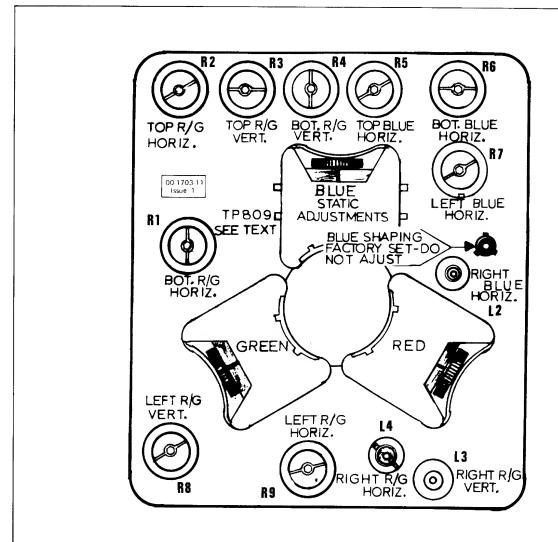
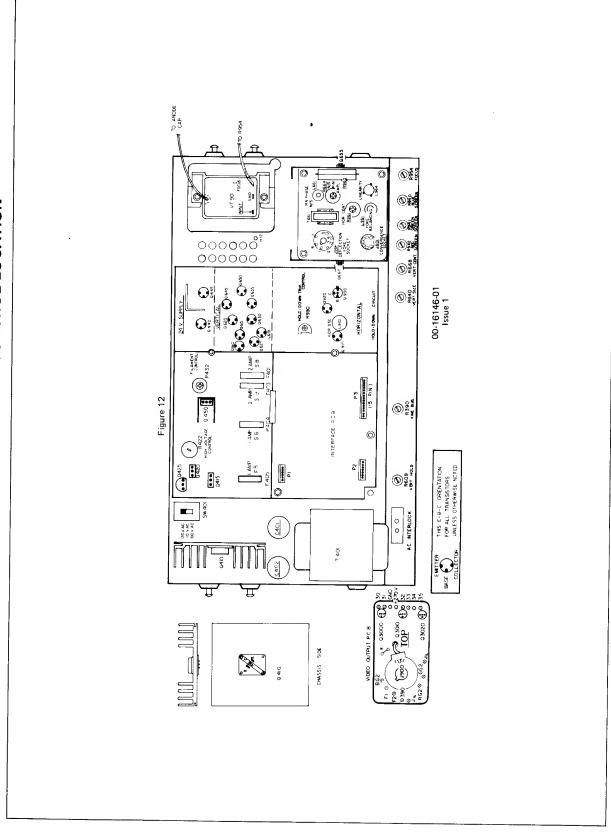


Figure 11 - Dynamic Convergence Panel



TRANSISTOR LEAD CONFIGURATION CONVENTION

The suffix or last two digit dash numbers of the new Electrohome transistor part numbers serve to identify lead configuration.

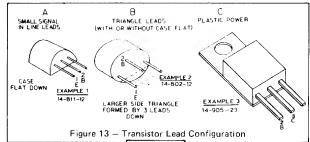
EMITTER = 1

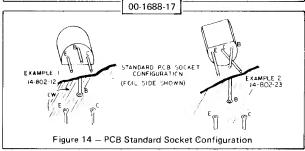
BASE = 2 COLLECTOR = 3

The two digit suffix specifies the first two leads reading from left to right when the transistor is held with leads directed toward you and with the:

a) transistor case flat down (in line leads).

- b) large side of triangular lead formation down, or
- c) collector heat tap down for plastic power units.

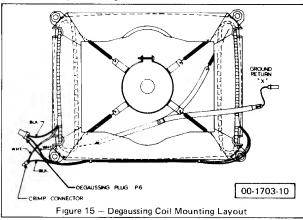




On the printed circuit boards in the monitor solder pads are provided for small signal transistors in a configuration that is consistently

CLOCKWISE emitter-base-collector WHEN VIEWED FROM THE FOIL SIDE OF THE PRINTED CIRCUIT BOARD. (This is the same view as the bottom of the transistor itself). This knowledge then allows one to form any small signal transistor's leads to fit the standard socket arrangement and alternate transistors need only be known by their suffix or dash number.

Plastic power transistor configurations vary and generally have been left in-line with individual sockets adapted to the transistor leads (no provision for lead forming). Consequently, there will be no alternate units of differing lead configuration (or suffix number).



NOTE: To obtain correct degaussing action it is important to regard the polarity of the coils. If the series connected coils are positioned around pix tube as shown with leads pointing down and toward picture tube center. The fields will aid one another resulting in good degaussing. This can be checked by artificially creating an impurity pattern by touching faceplate of picture tube with a relatively strong permanent magnet; and then after thermistor has cooled to normal ambient temperature switch set on. Practically all traces of impurity should disappear provided the purity of the picture tube was correctly adjusted.

TEST EQUIPMENT

- COLOR GENERATOR (with field/crosshatch/color bar pattern provision).
 - NOTE: Electrohome has developed a color service generator that is specifically designed for use with the G02 monitor. This product may be ordered from:

OEM Contracts Manager

Electrohome Limited 809 Wellington St. N.

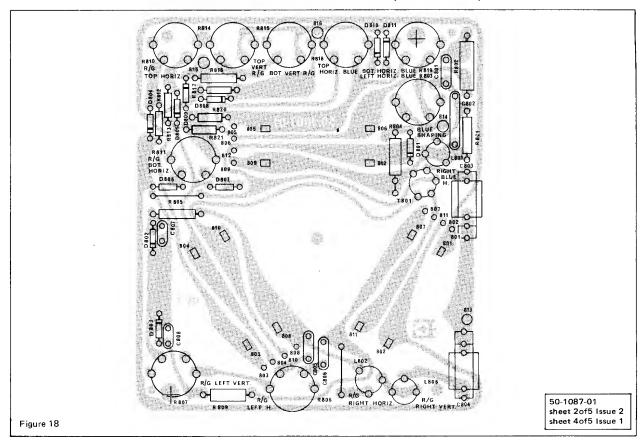
Kitchener, Ontario, Canada

N2G 4J6

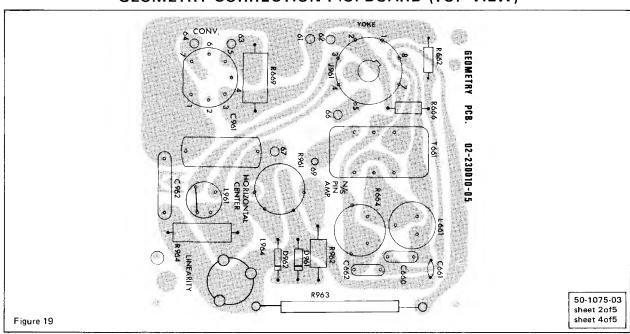
Telephone (519) 744-7111

- EHT METER, calibrated 0-35KV., or 35KV HIGH VOLTAGE PROBE for voltmeter - high accuracy.
- 3. VTVM, with capability of reading as low as 0.5V D.C. with resolution 0.1V. (or 20,000 ohm/v VOM).
- 4. OSCILLOSCOPE If used in video checks must have frequency response up to 10 MHz.

CONVERGENCE P.C. BOARD (TOP VIEW)



GEOMETRY CORRECTION P.C. BOARD (TOP VIEW)



R3016

VIDEO OUTPUT ... ✓ PCB 02-230011-01

> R3110⁴ BG2

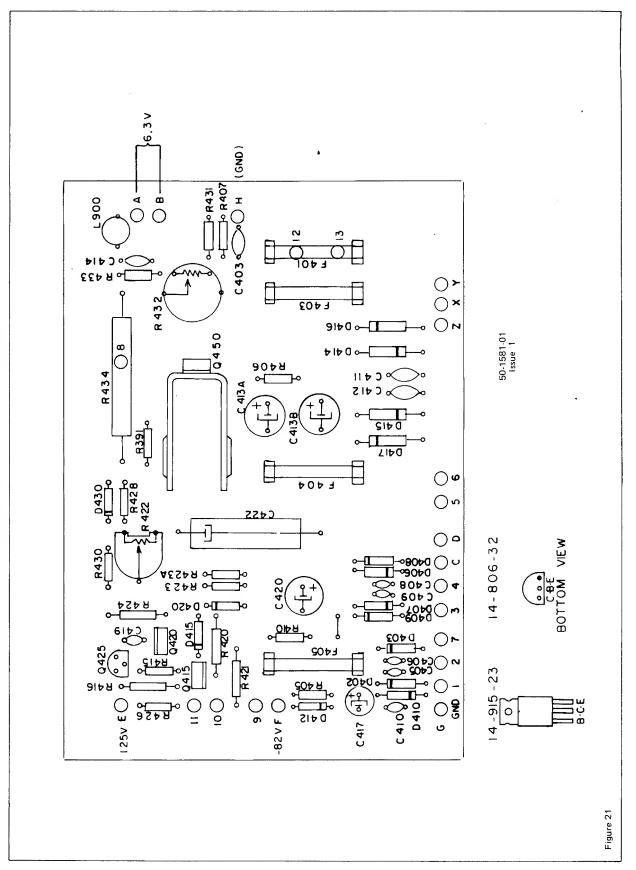
GND

0

662

R3027

0066



G02 MONITOR CIRCUIT DRAWING

Electrohome's Model G02 color data monitor has been developed specifically to meet stringent color display requirements of the video games industry.

In order to meet the various input signal requirements of our customers, this monitor has been produced with a chassis containing interchangeable interface circuitry capability. The following circuitry drawing package reflects this capability in that it contains circuits for six of the interface combinations that have been produced to date.

As additional circuits are developed their schematics will be made available through Electrohome's parts distribution facilities.

Customer inquiries concerning additional interface capabilities should be directed to Electrohome's OEM Contracts Manager at the following

ELECTROHOME Limited 809 Wellington Street, North Kitchener, Ontario Canada N2G 4J6

> ALWAYS ORDER PARTS BY PART NUMBER, TO ENSURE FAST DELIVERY AND CORRECT REPLACEMENT

U.S.A. CUSTOMERS:

Service (U.S.A.) Electrohome

192 Wales Avenue

Tonawanda, New York 1415 Telephone: (716) 694-3332

CANADIAN CUSTOMERS:

Service Electrohome 809 Wellington Street North Kitchener, Ontario N2G 4J6 Telephone: (519) 744-7111 Telex: 069-5120

IMPORTANT SAFETY NOTICE

Components identified by the shaded areas in the parts list and \triangle symbol on the schematic have special characteristics for safety.

These critical safety components are designed to "fail safe" under abnormal conditions. The failure of any one component often causes stress in other components which could lead to smoke or fire or other hazards. Because of this, components are selected and tested under actual fault conditions to ensure safe operation. Replacement with anything other than the identical Electrohome part may present a hazard.

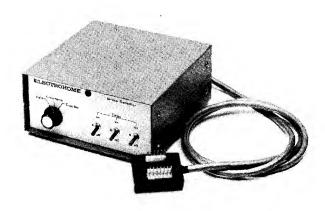
COLOR SERVICE GENERATOR FOR GO2 MONITOR

Electrohome has developed a color service generator that is specifically designed for use with the G02 color data monitor. The generator derives its power to operate directly from the monitor. It provides the monitor with both horizontal and vertical sync, as well as the following test patterns:

- Fine cross-hatch pattern
- Broad bar cross-hatch pattern
- 3) Complete field

Three color selection switches red, green and blue provide the ability to display the above patterns in the three primary colors as well as the three secondary colors.

This product may be ordered from: OEM Contracts Manager **ELECTROHOME** Limited 809 Wellington St. North Kitchener, Ontario Canada N2G 4J6 Telephone: (519) 744-7111



22.5mg HOR SYNC OUT 0.00000000000000 220pfc108 ੂੰ 33µF/35∨ 56pf C103 \$6.pf ALL DIODES 14-54-64
ALL CERAMIC CARS TO BE \$ 10 %
CONNECT PIN 3 TO PIN9
ALL RESISTORS .25W INLESS MARKED OTHERWISE. Ç 102 330n 330.P RIO5 1.8 K R108 | R146 | R14 9010 14-858-32 14-660-I2 RI28 2.4K \$ 8.5 4.4 4.4 4.4 ZI-099-bi ZI~099-ti \vdash \vdash \$ 24 K STANDARD T.T.L. BINERY INPUT P.C.B. 3 2.2K R119 DI09 2.0K RII4 2.2K RIIB 2.2 K RII6 1047pF * \ \ \ \{ \$ ASSEMBLY No. 02-230098-01 P.C.B. No. 50-1409-01 GREEN 0 0 SYNC OUT 0 7405-21C101 COLOR OUTPUT AMPLIFIERS 0 в Э VERT SYNC. 0 0 1.8 K P- 2 HORIZONTAL BLANK O-VERTICAL BLANK C110 (µF/50V 0 0 в Э 8 2.2 K 14-858-32 14-858-32 0101 3600 } 2.4K 8122 2.2 K 4100FF EMITTERS COLOR OUTPUT AMPLIFIER 100 754 100 VERT SYNC [] OPIN 1-16 OPINZ-1 4127 2.4 K HOR SYNC JE OPIN3-16 DPIN4-8 $\begin{pmatrix}
c & E \\
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\end{pmatrix}
\frac{660 - 12}{862 - 12}$ E B C (O O O) 858-32 \$1075 BOTTOM VIEW Ŷ 7. 6. 9 WHITE JL III GREEN 1 5 C MAGENT 17 O YELL. J. 8 🔿 CYAN A 10 C MI ASI 101 0Z 8145 4.7K . 5W ♪ GROUND SPARE SPARE SPARE BLUE RED

15

	REMARKS	7407
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PARIS LIST	DESCRIPTION 2K4.25W 5% Resistor 2K4.25W 5% Resistor 2K4.25W 5% Resistor 2K4.25W 5% Resistor 36DR.25W 5% Resistor 36DR.25W 5% Resistor 36DR.25W 5% Resistor 36DR.25W 5% Resistor 5K1.25W 5% Resistor 27OR.5W 5% Resistor	74/04 Hex Inverter 74/04 Hex Inverter 74/04 Hex Inverter Zener Diode 15V. 5W 5% Zener Diode 5.1V. 4W 5%
	SYMBOL R128 R132 R133 R133 R133 R134 R136 R136 R145 R145 R145	ZD101 ZD101 ZD102
OE REPLACEMENT	EMARKS 11 1N4148 11 1N4148	TT 1 NA 148 1 NO 14 1 NO
SERVICE	PART NUMBER 44-110104-05 44-333005-12 46-356013-01 46-322113-01 46-322113-01 46-322113-01 46-322113-01 46-556111-30 46-510468-57 48-174721-62 48-174721-62 48-174721-62 48-174721-64 14-000514-64 14-000514-64	14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-00051464 14-0005160-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-000660-12 14-0123315-11 14-123315-11 14-122225-11
	W . WYNY	Diode Signal Signal Trans. 200MW 50V Small Sig. Trans. 250MW 30V High Freq. Trans. 250MW 30V High Fred.
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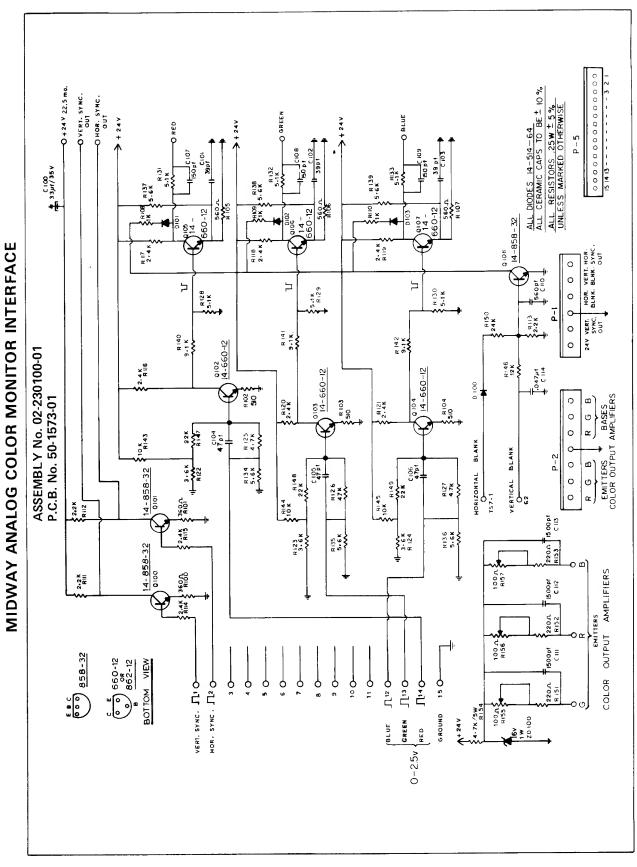
O +2.4 v 22.5 me 22.5 me O VI OUT O GREEN O BLUE **→** + 24 V V +2+V → 33 µ1 / 35 V ALL CERAMIC CAPS TO BE \$ 10%
ALL RESISTORS 25 W \$5% UNLESS MARKED OTHERWISE 220pf C101 56pf C102 5.1K RH7 330.0 R H3 1.8K RIO7 1.8K RIO7 1.5K RIO7 2.0101 14 - 660-12 0100 0 102 14 -660-12 8 H9 2.4 K FORTUNE COIN CO. INTERFACE T.T.L. P.C.B. \vdash \$ R 125 3.0.K 8127 2.2 K .047,467 ASSEMBLY No. 02-23101-01 P.C.B. No. 50-1409-01 GREEN RED BLUE 4 0 E 0 9 +24V VERT SYNC OUT 0 0 15 14 13 - - - - - 3 2 1 EMITTERS = BASES
COLOR OUTPUT AMPLIFIERS 14-858-32 R G B 0 9.2K P-5 \$ 8105 \$360n 0 P-2 HORIZONTAL BLANK 0 VERTICAL BLANK R G B 0 0 14-858-32 R 100 360A R 103 8 102 COLOR OUTPUT AMPLIFIER 6 0 0 858-32 600-12 800-12 862-12 BOTTOM VIEW 729 7,40 ρ̈́ VERT. SYNC∏1 O Ã Ŷ õ ĝ Ý ő + 5v 9Q ş GREEN 7130õ HOR. SYNC 12 O GROUND 15 v 31 05 05 BLUE RED

17

MENT PARTS LIST	SYMBOL DESCRIPTION		
SERVICE REPLACEMENT	REMARKS	TT11N4148-1N914 TT11N4148-1N914 TT1N4148-1N914 TT1N4148-1N914	
SERVI	PART NUMBER 46-356013-01 46-322113-01 46-356013-01 46-356013-01 46-551113-01 46-56111-30 48-174721-62 48-174721-62 48-174721-62	14-000514-64 14-000514-64 14-000514-64 14-000514-64 14-000858-32 14-0012515-11 14-012515-11	40-222715-11 40-222715-11 40-224725-11 40-221525-11 14-000515-53
	DESCRIPTION 56p F Z5P 10% 500V 220p F Z5P 10% 500V 56p F Z5P 10% 500V 220p F Z5P 10% 500V 56p F Z5P 10% 500V 560p F 10% 1000V 47n F 10% 200V 4700p F	Diode Signal Diode Signal Diode Signal Diode Signal Diode Signal Small Sig. Trans. 300MW 50V Small Sig. Trans. 300MW 50V High Freq. Trans. 250MW 30V High Freq. Trans. 250MW 30V High Freq. Trans. 250MW 30V Small Sig. Trans. 300MW 50V ZK2. 25W 5% Resistor ZK2. 25W 5% Resistor ZK4. 25W 5% Resistor ZK2. 25W 5% Resistor	ZYN, ZWY 25, Weststor ZYOR. 5W 5% Resistor ZYOR. 5W 5% Resistor 4K7 - 5W 5% Resistor 1K5, 5W 5% Resistor Zener Diode 15V 1W 5% Zener Diode 5.1V .4W 5%
	SYMBOL C100 C102 C102 C103 C104 C105 C105 C106 C106 C108	00000000000000000000000000000000000000	R129 R131 R132 R133 R134 ZD100

33ut - 35v + 24v HOR. SYNC. OUT. 22-5 ma VERT. SYNC. OUT 56 pf C109 220 pf C110 ALL DIODES 14-514-64 & ALL CERAMIC CAPS TO BE ±10% ALL RESISTORS 25W ±5% UNLESS MARKED OTHERWISE C103 #145 470A 1W 1W ED 100 14-858-32 R130 € 9 102 ₹<u>21 C99 Þ1</u> 8125 2.4 K ZI 099 FI ZI 099 17 1.8K R110 1.8 R 109 1-8 K R108 \Box \vdash A135 R136 COLOR MONITOR INTERFACE P.C.B. - EXIDY 047 MT \$ 2 × \$ ± }* ~ 2 \$€ £ }; P 5 ASSEMBLY No. 02-230103-01 P.C.B. No. 50-1575-01 8.5.7 × 8.5.7 0 ₹ \$ \$ 0 E010 0 0 VERT. SYNC, OUT. 13 12 11 10 3 8 7 0. 8 i 0. 0 5¢ A 0 m) HORIZONTAL BLANK 0 0 α 0 p-2 R G B 0 EMITTERS C100 2.2 K C106 4700pf 360.02 R 105 14-858-32 ō 22005 -5 W R140 R143 R100 COLOR OUTPUT AMPLIFIERS 7102 VERTISYNC. 1€1 0 0-1 HOR.SYMC. [[2 0 0 0 220.05 15 W 010 (0 0 0) 858-32 BOTTOM VIEW 4 0 5 M-BLUE JE O-6 - BLUE ∏ 5 O L-GREEN]BO-M-GREEN J10 O-L-RED 112 O M-RED][13 O-**4** ♀ 062 Y GROUND 15 O 220A 5¥6 # 8138 π 4 × √ × 4 × ×

REMARKS																					
PART NUMBER 40-122435-11 40-12225-11 40-121235-11 40-222215-11	40-222215-11 40-222215-11 41-000265-17 41-000265-17 41-000265-17	40-224725-11 40-424715-11 14-000515-44	14-000515-53																		
DESCRIPTION 24K. 25W 5% Resistor 2K2. 25W 5% Resistor 12K. 25W 5% Resistor 220R. 5W 5% Resistor	220R .5W 5% Resistor 220R .5W 5% Resistor Carbon Trim Pot 100R 20% Carbon Trim Pot 100R 20% Carbon Trim Pot 100R 20%	4K7 .5W 5% Resistor 470R 1W 5% Resistor Zener Diode 5.1V .4W	Zener Diode 15V .5W																		
SYMBOL R135 R136 R137 R138	R139 R140 R141 R142	R144 R145 ZD100	ZD101																		
REMARKS					7405	7405															
PART NUMBER 46-310468-57 44-110104-05 44-333005-12	48-174721-62 48-174721-62 48-174721-62 48-174732-62 46-556111-30	46-356013-01 46-322113-01 46-356013-01	46-322113-01 46-356013-01 46-322113-01	14-000514-64 14-000514-64	14-000514-64 14-002031-01	14-002031-01 14-000858-32	14-000858-32 14-000868-32 14-000660-12	14-000660-12 14-000660-12	40-122225-11	40-122425-11	40-122425-11	40-121825-11 40-121825-11 40-121825-11	40-121825-11	40-122725-11 40-122725-11 40-125125-11	40-122725-11 40-125125-11	40-122725-11 40-125125-11	40-125125-11 40-122425-11 40-121025-11	40-125125-11 40-123315-11 40-122425-11	40-121025-11 40-125125-11 40-125125-11	40-123315-11 40-122425-11 40-121025-11	40-125125-11 40-125125-11 40-123315-11
DESCRIPTION 100nF Z5V 20+80% 50V 100uF 10V Elect. 33.1F 35V Flort		×00.	220pF Z5P 10% 500V 56pF Z5P 10% 500V 220pF Z5P 10% 500V	Diode Signal	Diode Signal Diode Signal 7405 Hex Inverter	7405 Hex Inverter Small Sig. Trans. 300MW 50V	Small Sig. Trans. 300MW 50V Small Sig. Trans. 300MW 50V High Fred. Trans. 250MW 30V	High Freq. Trans, 250MW 30V High Freq. Trans, 250MW 30V	2K2.25W 5% Resistor	2K4 .25W 5% Resistor 2K4 .25W 5% Resistor 360R .25W 5% Resistor	2K4 .25W 5% Resistor 360R .25W 5% Resistor	1K8 .25W 5% Resistor 1K8 .25W 5% Resistor 1K9 .25M 5% Decistor	1K8 .25W 5% Resistor	IKS .25W 5% Resistor 2K7 .25W 5% Resistor 5K1 .25W 5% Resistor	OR 2K7 .25W 5% Resistor 5K1 .25W 5% Resistor	OH 2K7 .25W 5% Resistor 5K1 .25W 5% Resistor	OR 5K1 .25W 5% Resistor 2K4 .25W 5% Resistor 1K .25W 5% Resistor	5K1 .25W 5% Resistor 330R .25W 5% Resistor 2K4 .25W 5% Resistor	1K .25W 5% Resistor 5K1 .25W 5% Resistor 5K1 .25W 5% Resistor	330R. 25W 5% Resistor 2K4.25W 5% Resistor 1K. 25W 5% Resistor	5K1 .25W 5% Resistor 5K1 .25W 5% Resistor 330R .25W 5% Resistor
SYMBOL C100 C101 C102 C102	0105 0106 0106 0107 0108											R106	R109	R111	R R R 113	R117	R 120 R 121 R 122	R123 R124 R125	R126 R127 R128	R129 R130 R131	R132 R133 R134



	REMAF
	PART NUMBER 40-125625-11 40-125625-11 40-125625-11 40-125625-11 40-129125-11 40-129125-11 40-121035-11 40-121035-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122235-11 40-122215-11 40-122235-11 40-12235-11
PARTS LIST	DESCRIPTION 5K6 .25W 5% Resistor 5K1 .25W 5% Resistor 9K1 .25W 5% Resistor 10K .25W 5% Resistor 10K .25W 5% Resistor 10K .25W 5% Resistor 10K .25W 5% Resistor 2ZK .25W 5% Resistor 2ZOR .3W 5% Resistor 2ZOR .3W 5% Resistor 2ZOR .5W 5% FROM 5%
	SYMBOL R135 R136 R138 R139 R140 R144 R144 R145 R145 R150 R151 R155 R155 R155 R155 R155 R15
CE REPLACEMENT	REMARKS
SERVICE	PART NUMBER 46.439011.05 46.439011.05 46.439011.05 46.347013.02 46.347013.02 46.347013.02 46.315113.02 46.315113.02 46.315113.02 46.315113.02 46.315113.02 46.31513.51 46.31513.51 46.31513.51 46.000514.64 14.000660-12 14.000660-12 14.000660-12 14.000660-12 14.000660-12 14.000660-12 14.000660-12 14.000688-32 14.000660-12 14.000688-32 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000680-12 14.000858-32 14.000858
	DESCRIPTION 39.0
	SYMBOL C100

ALL CERAMIC CAPS TO BE:
ALL RESISTORS .25 w ± 5 %
UNLESS MARKED OTHERWISE → +24 ∨ 00000000 14-858-32 2.4K 7.4 × R128 HOR VERT HOR BLNK BLNK SYNC Þ 0 R139 ב \$4.3x ₩38 \Box MIDWAY COLOR DIFFERENCE INTERFACE 2.2 K 24V VERT SYNC OUT ₹ 57 \$ 24 K 12 \ \frac{9}{42} 0.0 0 3 T 8.53 × 53 9. 58. 35. 58. 14-660-12 -O PI-I+5 HOR+ VERT. SYNC. OUT 150 pt 8123 2.4 K \$5.5 \$7.5 .047 uf C123 14-660-12 14-660-12 ASSEMBLY No. 02-230104-01 P.C.B. No. 50-1577-01 COLOR OUTPUT AMPLFIERS 430 A 430 A 1 A R 103 **★**ē \$2.4 K R 125 8 158 100 K HORIZONTAL BLANK ა გ ჯე VERTICAL BLANK R159 T S7-1 (P 1-3) 0 62 (PI-2) 1500pf C122 ¥+24∨ 14-660-12 8.2K 180 2 - 33 uf R148 6.2 K EMITTERS
COLOR OUTPUT AMPLIFIERS 270 - 1500pf \$ 270 - 1500pf 2.7 K R (30 ^ +l6 v R 137 3.9 K 10 10 4 25 V C100 <u>ا</u>ل− قق 2200pt 660-12 1.5 K 1.5 K 14660-12 0 105 R145 | R60 56 K | 150 K 100 A 6.2 K R146 2.2× 812! (0 0 0) 858 - 32 P1-6 0-24 v BOTTOM VIEW 6.60-12 86.2-12 COMMON O P5-3 **w** 0 0 0

REMARKS																																																								
PART NUMBER	40-121525-11	40-121525-11	40-121525-11	40-122025-11	40-122225-11	40-122225-11	40-122425-11	40-122425-11	40-122425-11	40-122425-11	40-122425-11	40-122425-11	40-122/25-11	40-122/25-11	40-122/25-11	40-122/25-11	40-122/25-11	40-123025-11	40-123025-11 40-12325-11	40 10302011	40-123323-11 40-124325-11	40-125125-11	40-125125-11	40-125125-11	40-125125-11	40-125125-11		40-125625-11	40-126225-11	40-126225-11	40-126225-11	40-126225-11	40-126225-11 40-126225-11	40-128225-11	40-129125-11	40-129125-11	40-129125-11	40-121235-11	40-122435-11	40-121045-11	40-121545-11	40-222715-11	40-222715-11	40-222715-11	40-228215-11	21 001162 01	21-001163-01	200-17								
DESCRIPTION	1K5 25W 5% Besistor	1K5 .25W 5% Resistor	1K5 .25W 5% Resistor	2K0 .25W 5% Resistor	2K2 .25W 5% Resistor	2K2 .25W 5% Resistor	2K4 .25W 5% Resistor	ZK4 .25W 5% Resistor	ZK / .25W 5% Resistor	ZK / .Z5W 5% Resistor	ZK / Z5W 5% Resistor	ZK / ZSW 5% Resistor	2K7 .25W 5% Resistor	3KO 25W 5% Resistor	3K3 2KM 5% Besistor	3KQ 25M 5% Design	4K3 25W 5% Resistor	5K1 25W 5% Resistor	5K1.25W 5% Resistor	2K1 .25W 5% Resistor	5K1 .25W 5% Resistor	5K1 .25W 5% Resistor		5K6 .25W 5% Resistor	6K2 .25W 5% Resistor	6K2 .25W 5% Resistor	6K2 .25W 5% Resistor	6K2.25W 5% Resistor	GK2 .25W 5% Resistor GK2 25W 5% Resistor	8K2.25W 5% Resistor	9K1 .25W 5% Resistor	9K1 .25W 5% Resistor	9K1 .25W 5% Resistor	12K .25W 5% Resistor	24K .25W 5% Resistor	100K 25W 5% Resistor	150K, 25W 5% Resistor	270R .5W 5% Resistor	270R .5W 5% Resistor	270R .5W 5% Resistor	820H .5W 5% Hesistor	24K .25W 5% Resistor	Detay Line													
SYMBOL	R117	R118	R119	R120	R121	R122	R123	R124	R125	H126	K12/	27 70	27.53	25.50	2 6	251.0	250	1010	36.	B137	138	R139	R140	R141	R142	R143	R144		R146			H149	5 -	52	53	54	22	92	H15/	R 150	R 160	R161	R162	R163	401	1 - 1	101)]								
REMARKS									,																T1 1N4148-1N914	T1 1N4148-1N914	T1 1N4148-1N914	T1 1N4148-1N914	T1 1N4148-1N914	į	MPS 6519																									
PART NUMBER	44-110006-03	44-333005-12	46-439011-05	46-439011-05	46 439011-05	46-347013-02	46-34/013-02	46-322213-59	46-315113-02	46-515715-02	46-313113-02	46.313113.02	40-515115-02 A6 210469 57	46-410010-11	46-410010-11	46-410010-11	46-422010-11	46-468010-08	46-468010-08	46-315213-51	46-315213-51	46-315213-51	48-174732-62	46-556111-30	14-000514-64	14-000514-64	14-000514-64	14-000514-64	14-000514-64	14-000515-65	14-000824-32	14-000652-12	14-000858-32	14-000660-12	14-000660-12	14-000660-12	14.000660-12	14-000060-12	14-000660-12	14-000660-12	14-000660-12	14-000660-12	40-121015-11	40-121815-11	40-124319-11	40-124315-11	40-124715-11	40-124715-11	40-125115-11	40-126815-11	40-121025-11	40-121025-11	40-121025-11	40-121025-11	40-121225-11	40-121225-11
DESCRIPTION	10uF 25V Elect.	33uF 35V Elect.	39pF N150 10% 50V	39pF N150 10% 50V	39pF N150 10% 50V	4/pF Z5P 10% 500V	4/pr 25F 10% 500V	2200pr 43r 10% 50V	150pF 25F 10% 500V	150pt 25r 10% 500V	150pr 23r 10% 500 v	150pt 251 10% 500V	100pF 25V 20+80% 50V	10nF NPO 20% 50V	10nF NPO 10% 500V	100F NPO 10% 500V	17pF NPO 10% 50V	68pF NPO 10% 50V	68pF NPO 10% 50V	1.5nF Z5P 10% 50V	1.5nF Z5P 10% 50V	1.5nF Z5P 10% 50V	0	560pF 10% 1000V	Diode Signal	Diode Signal	Diode Signal	0 1	ć	Zener Diode Ibv .5W	tor io Trans GOOMM	in Trans 300MW	ig. Trans, 300	req. Trans. 250MW	req. Trans. 250MW	req. Trans. 250MW	High Fred, Trans, 250MW 30V	red. I rans. 250MW	Fred Trans 250MW	Freq. Trans. 250MW	req. Trans. 250MW		100R .25W 5% Resistor	190H .23W 5% Resistor	430B 25W 5% Resistor	430R .25W 5% Resistor	470R .25W 5% Resistor	470R .25W 5% Resistor	510R .25W 5% Resistor	DOUR .25W 5% Resistor 1K0 25W 5% Resistor	1K0.25W 5% Resistor	1K0 .25W 5% Resistor	1K0 .25W 5% Resistor	1K0 25W 5% Resistor		1K2 .25W 5% Resistor
SYMBOL	C100	C101	C102	C103	2010	36															C121	C122	C123	C124	D100	D101	D102	0103	2010	5000	35	2010	0103	0104	0105	0106 0106	, and a	5 5 8 8	0110	0111	0112												R112			116

ALL DIODS 14-514-64
ALL CERAMIC CAPS TO BE
+10 %
ALL RESISTORS.25w±5%
UNLESS MARKED
UNLESS WARKED
3-32 OTHERWISE SYNC DUT 2.5md 220pf CIO7 4. C10 **56**pf C105 220pf C 108 330A R100 330 A 102 33µf/16V C 102 8K .5W R:44 3600 B145 9 10 5 0100 14-660-12 14-660-12 R130 2.4K 2.4K <u>14-660-12</u> ZI-099-bI 18 K R 11 8 K R 112 18 K R 113 24K R146 0117 2.2K R123 0118 2.2K R124 019 2.2K R125 ATARI TANK T.T.L. BINERY INPUT P.C.B. 2.0K R116 2.2 K R 120 2.0K R118 2.7K R133 3.3K R135 2.4K RI32 DII5 2.2K RII4 2.2K RII9 ASSEMBLY No. 02-230099-01 P.C.B. No. 50-1571-01 SPARE SPARE MAGENTA BLUE YELLOW 9 SYNC.OUT o 0110 1 / 50v COLOR OUTPUT AMPLIFIERS ა ლ. 0 1500pf 222 4) 0102 14-<u>862-12</u> HORIZONTAL BLANK O-VERTICAL BLANK A115 7442 101 21 8 S ٥ 222 0 8 0 K R 122 . δ. δ. 4000fp 0 122 COLOR OUTPUT AMPLIFIER O O O C 100 100µf/ 10V R 127 EMITTERS 862-12 862-12 ē ₹ /858-32 BOTTOM VIEW W2 . A.OTS TPIR WHITE]] 11 O-ة 9 <u>4</u> O 9 0 . 0 BLACK 7 3 O 0 () 80 SYNC. 1 2 9 ę 4,7K .5W OND a, a SP

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REMARKS
PART NUMBER 40-124715-11 40-122025-11 40-122025-11 40-122025-11 40-122025-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-122125-11 40-125
DESCRIPTION 470R 25W 5% Resistor 2K0 25W 5% Resistor 2K0 25W 5% Resistor 2K2 25W 5% Resistor 2K4 25W 5% Resistor 2K7 25W 5% Resistor 2M 5W 5% 6W 5W
SYMBOL 8 115 8 115 8 115 8 1122 8 1123 8 1123 8 1123 8 1123 8 1133 8 1133 8 1134 8 1134 8 1134 8 1135 8
TI 1N4148-1N914
PART NUMBER 44.110104-05 44.333005-17 44.333005-27 44.333005-27 44.333005-27 44.333005-27 46.356013-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.322113-01 46.000514-64 14.000
DESCRIPTION 100. F 10V Elect. 33. F 35V Elect. 33. F 35V Elect. 56p F 25p 10% 500V 220p F 25p 10% 500V 4.7 p 10% 100V 4.7 p 10% 100V 4.7 p 10% 100V 4.7 p 10% 100V 510 p 25p 10% 100V 510 p 25
SYMBOL C10000 C1000 C1000 C1000 C1000 C1000 C1000 C1000 C1000 C10000 C1000 C1000 C1000 C1000 C1000 C1000 C1000 C1000 C10000 C1000

1334/35V 1 - 1010 + 24V 22:5ma SYNC. DUT + 24 V + 2 \$ \$ ALL DIODES 14-514-64

ALL CERAMIC CAPS TO BE \$\frac{1}{2}\$ 10%

ALL RESISTORS .25 WATT \$\frac{1}{2}\$ 5% UNLESS MARKED OTHERWISE 220pf C105 001.5 Ť 330A R 101 33µ1716V 3 K R144 10 103 R 130 € √2i-099-ti ₹ 21-099-₽I 21-099-12 18K R 109 \vdash \vdash \$ P :39 ATARI INDY 800 INTERFACE T.T.L. P.C.B. 2.0K R IIS 2.2K R IIB 2.0K RII3 2.2 K RII9 1.8 K R 108 DII3 2.4K R127 2.2K RII7 .047µf CIII B08 ASSEMBLY No. 02-230102-01 P.C.B. No. 50-1574-01 MAGENTA GREEN PEACH SPARE NEE BLUN <u>-</u> 4 SYNC, OUT 0 0 7405-2 COLOR OUTPUT AMPLIFIERS 0 R G B 0 0 P-2 VERTICAL BLANK O-HORIZONTAL BLANK 0 80 O B 0 14-858-32 360A R125 1q0074 COLOR OUTPUT AMPLIFIER (O O) 660-12 OR F 8 C 0 0 858-32 COMPOSITE 1 2 2-5 2-6 SYMC. NEG. 862-12 BOTTOM VIEW MI A SI # D 100 # 6. 3 × 7.4 0) GREEN 11 10 BLUE N 16 SHOUND 1 22 MAGENTA AL 18 я€0 Д 20 PEACH JL 14 reliow Λ 4 •итЕ Л 6 CYAN J. B *5 V D 12

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REMARKS
PART NUMBER 40-122225-11 40-122225-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-122425-11 40-222715-11 40-222715-11 40-222715-11 40-222715-11 40-222715-11 40-222715-11 40-222715-11 40-222715-11 40-222715-11 40-223715-11 40-223715-11
DESCRIPTION 2K2. 25W 5% Resistor 2K2. 25W 5% Resistor 2K4. 25W 5% Resistor 5K1. 25W 5% Resistor 5K1. 25W 5% Resistor 5K1. 25W 5% Resistor 5K1. 25W 5% Resistor 2K1. 25W 5% Resistor 2K2. 25W 5% Resistor 2K4. 25W 5% Resist
SYMBOL 8122 8123 8124 8125 8126 8130 8133 8133 8134 8134
TT 1 NA148-1N914
PART NUMBER 44-133005-27 44-133005-27 44-333005-12 44-110104-05 46-31010468-57 46-5320113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-525113-01 46-000514-64 14-00051-11 40-123315-11 40-123315-11 40-12325-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11 40-122225-11
DESCRIPTION 33uF 16V Elect. 33uF 35V Elect. 10ub F 10V Elect. 10ub F 10V Elect. 10ub F 10V Elect. 100n F 25V 20+80% 50V 220pF 25P 10% 500V 220pF 25P 10% 500V 220pF 25P 10% 500V 250pF 25P 10% 500V 25ppF 25P
SYMBOL C100 C100 C100 C100 C100 C100 C100 C100 C100 C111

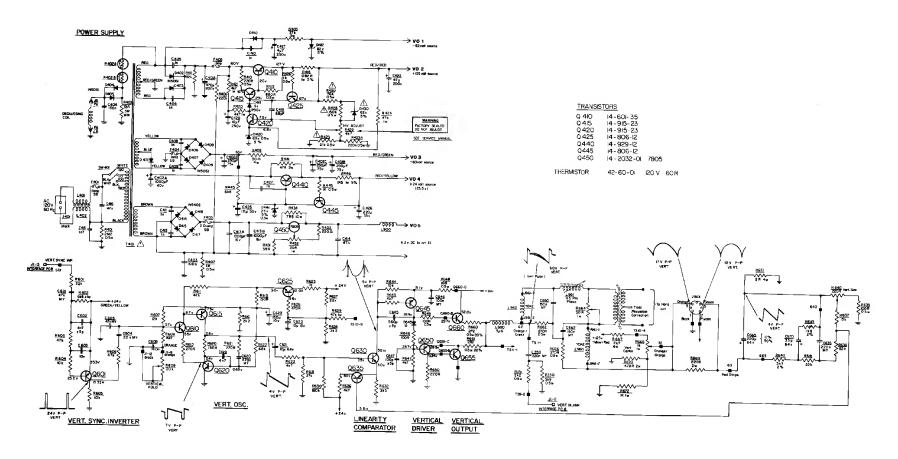


Figure 10 Schematic of Electrohome Model GO2 25-inch Color Raster-Scan Monitor (as used in Tank® 8 and Sprint™ 4)

Figure 10, continued Schematic of Electrohome Model G02 25-Inch Color Raster-Scan Monitor (as used in Tank® 8 and Sprint™ 4)

